State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

RECEIVED Office of Oil and Gas

OCT 1 3 2017

WV Department of

			Environmental Protection
API 47- 043 - 03569 County LINC	OLN	District DUVAL	
Quad GRIFFITHSVILLE 7.5' Pad Name OL	Field/Pool Name G	RIFFITHSVILLE	
Farm name RAYBOURN, D. ARTHUR & MARJORI			
Operator (as registered with the OOG) H.G. ENERGY	LLC		
Address 5260 DuPONT ROAD City F	ARKERSBURG	State WV	Zip 26101
As Drilled location NAD 83/UTM Attach an as-dr Top hole Northing 4.232,548 N Landing Point of Curve Northing Bottom Hole Northing	Ea	nd deviation survey asting 416,512 M sting sting	
Elevation (ft) 725' GL Type of Well	I ■New □ Existing	Type of Report	□Interim
Permit Type Deviated Horizontal Horizontal	contal 6A	Depth Type	□ Deep
Type of Operation □ Convert □ Deepen ■ Drill	□ Plug Back □ Red	rilling 🗆 Rework	□ Stimulate
Well Type □ Brine Disposal □ CBM □ Gas ■ Oil □	Secondary Recovery	Solution Mining 🗆 Sto	rage 🗆 Other
Type of Completion Single Multiple Fluids Production Hole Air Mud Fresh Production hole Air Mud Fresh Water Band Mud Type(s) and Additive(s)			□ Other
Date permit issued3/14/17 Date drilling co	mmenced8/9/17	Date drilling o	eased 8/20/17
Date completion activities began 8/31/17	Date completion ac	tivities ceased	9/8/17
Verbal plugging (Y/N)N Date permission gran	nted	Granted by	
Please note: Operator is required to submit a plugging app	lication within 5 days of	verbal permission to p	ug
Freshwater depth(s) ft15', 20', 40'	Open mine(s) (Y/N)	depths	None
Salt water depth(s) ft 894', 1180'	Void(s) encountered	•	None
Coal depth(s) ft	Cavern(s) encounter	ed (Y/N) depths	None
Is coal being mined in area (Y/N) N		WE TO	Reviewed by:
	effrey 5 m.th		01/05/2018
DATE: /	11-15-17		

WR-35 Rev. 8/23/13

API 47- 043	03569	Farm n	ame RAYBOUR	RN, D. ARTHU	JR & MAR	JORIE Well	number_264	4		
CASING	Hole	Hole Casing New or Grade			Basket		Did cement circulate (Y/N)			
STRINGS Conductor	Size	Size	Depth	Used			Depth(s)	* Provid	* Provide details below*	
Surface	15°	13 3/8"	30'	New		LS			Sand In	
	8 7/8"	7"	675.21'	New	<u> </u>	LS	30'		N N	
Coal					ļ					
Intermediate 1				<u> </u>	 -			_		
Intermediate 2		 _		<u> </u>	ļ					
Intermediate 3 Production			-		<u> </u>			_		
	6 1/4"	4 1/2"	2384.06'	New	ļ ·	J-55		_	N	
Tubing Packer type and de					<u> </u>					
Comment Details	Grouled w/ Est. 25	5 sks on 7" surface cem	ent job.							
CEMENT DATA			er Slum is wi (p)		Yield Volum (ft ³/sks) (ft ²_)		Cement Top (MD)		WOC (hrs)	
Conductor										
Surface	Reg Neat	175	15.0	6	1.18 207		Surfa	ace	8	
Coal										
Intermediate 1			i							
Intermediate 2	-									
Intermediate 3	-								-	
Production	50:50 Pozm	ix 95/12	5 13.2/1	4.2 1.6	1.64/1.27 156/	156/186	86 372'		8	
Tubing			ĺ							
Drillers TD (ft Deepest forma Plug back pro-	tion penetrated	Berea		Loggers T Plug back						
Kick off depth	(ft) <u>N/A</u>									
Check all wire	line logs run	a caliper a neutron	■ density■ resistivity		ed/directi a ray		duction emperature	⊡sonic	;	
Well cored DESCRIBE TI		Convention				_	collected •			
		tralizer placed mid string on 7°								
WAS WELL C	COMPLETED	AS SHOT HOLE	E 🗆 Yes 🛢	No DI	ETAILS					
WAS WELL C	COMPLETED	OPEN HOLE?	□ Yes ■ N	lo DET.	AILS _					
WERE TRACI	ERS USED	Yes No	TYPE OF T	RACER(S)	USED _					

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API 47- 043 - 03569 Farm name RAYBOURN, D. ARTHUR & MARJORIE Well number 264

PERFORATION RECORD

Stage No	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	8/31/17	2210'	2220'	40	Berea
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Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbis)	Amount of Nitrogen/other (units)
1	9/8/17	4	1335	1727	1225	1,000	140	
								-
								
								
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Please insert additional pages as applicable.

Submittal of Hydraulic Fracturing Chemical Disclosure Information

` .		杰			Prepared by: Producers Service Corp		
Prepared for:							
H G Energy					- TO ACCUMENT (PERSONAL PROPERTY OF ACCUMENT AND ACCUMENT		
				Daniel L Graham			
Dustin Hendershot		PRODUCERS			109 S. Graham St.		
		SERVICE CORP.			Zanesville, OH 43702		
304-481-7342	n n	JENTIVE VVNr.			740-454-6253		
INVOICE #:	20007			1			
WELL NAME:	Olvier Hill #264						
COUNTY/STATE:	Lincoln/WV	•					
TOWNSHIP/FIELD:	Grifithsville						
DATE of SERVICE:							
CUSTOMER PO#:					1		
Description		Notes	Amount	Units	Unit Cost	Total Cost	
FLUID PUMP CHARGE 0-30	000 PSI MIN CHARGE 4 HRS		1				
BLENDER CHARGE 0-10 B	PM		1		13		
MILEAGE CHARGE PER U	NIT ONE WAY	2 Units @200 Miles		MI	Li		
IC ACID 15%			250	GAL	+:		
PRO HIB II			0.5		+;		
ACID DELIVERY			2		+;		
PRO CLA FIRM LP			6		\pm i		
PRO NE-21			150		+;		
PRO GEL 4			50		Ħ		
BUFFER I DATA VAN				STAGE	1		
BIO CLEAR 750			1		T:		
IRONTROL			50	LB	1!		
SAND 20/40 OTTAWA			10		1!		
SAND DELIVERY / TON MI	LES		100	TMILE	<u> </u>		
					+		
					+		
			_		 -		

Customer Approval:

01/05/2018